

What is claimed is:

1. A throttle control apparatus comprising:
a throttle valve having a shaft and for controlling air intake flow fed into an engine;
a throttle body rotatably supporting the shaft of the throttle valve; and
a vibration insulator for suppressing vibration transferred from the engine to the throttle body,
wherein the insulator is integrally formed with the throttle body.
2. A throttle control apparatus according to claim 1 further comprising:
a joint section integrally formed with the throttle body to combine with an intake manifold of the engine,
wherein the insulator is disposed near the joint section.
3. A throttle control apparatus according to claim 1,
wherein the insulator has an air-tight section to tightly seal between a sidewall section of the engine and a mounting flange of the throttle body.
4. A throttle control apparatus according to claims 1,
wherein the throttle body is formed with heatproof resin or aluminum die-cast, and
the vibration insulator is made of elastically deformable heatproof resin.

5. A throttle control apparatus comprising:
a motor for generating rotation power;
a throttle valve having a shaft driven by the rotation power of the motor for controlling air intake flow fed to the engine;
a throttle body rotatably supporting the shaft of the throttle valve and accommodating the motor; and
a vibration insulator for suppressing vibration transferred from the engine to the motor,
wherein the vibration insulator is integrated with the throttle body.

6. A throttle control apparatus according to claim 5, further comprising:
a motor holder positioned to lock the motor and integrated with the throttle body,
wherein the insulator is disposed near the motor holder.

7. A throttle control apparatus according to claim 5, further comprising:
a motor holder positioned to lock the motor and integrally formed on the throttle body;
a motor case included in the motor holder and accommodates the motor;
a motor cover included in the motor holder and supports the motor; and

an elastically deformable snap hook included in one of the motor case and the motor cover,

wherein the motor is supported by elastic force of the vibration insulator and the snap hook.

8. A throttle control apparatus according to claim 5, wherein the motor is remotely supported by the throttle body.

9. A throttle control apparatus according to claims 5, wherein the throttle body is formed with heatproof resin or aluminum die-cast, and

the vibration insulator is made of elastically deformable heatproof resin.